

Amendments to Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (previously presented) A transgenic oilseed plant that produces mature seeds in which the total seed fatty acid profile comprises at least 1.0% of at least one omega -3 polyunsaturated fatty acid having at least twenty carbon atoms and five or more carbon-carbon double bonds wherein said transgenic oilseed plant comprises in its genome at least two transgenic nucleic acid sequences encoding at least two different polypeptides and further wherein at least one polypeptide has desaturase activity and at least one polypeptide has elongase activity.

Claims 2-11. (cancelled)

Claim 12. (previously presented) The oilseed plant of Claim 1 wherein the polyunsaturated fatty acid is an omega-3 fatty acid selected from the group consisting of eicosapentaenoic acid (EPA), docosapentaenoic acid (DPA), and docosahexaenoic acid (DHA).

Claims 13-15. (cancelled)

Claim 16. (currently amended) Seeds obtained from the plant of Claim 1 or 12 wherein said seeds comprise the ~~transgene~~ transgenes.

Claims 17 – 20. (cancelled)

Claim 21. (withdrawn and currently amended) Oil obtained from the seeds of the plants of any of Claims 1, 11 or 12.

Claim 22. (withdrawn) Oil obtained from the seeds of the plants of any of Claims 1, 11 or 12 wherein the polyunsaturated fatty acid an omega-3 fatty acid.

Claim 23. (withdrawn) Oil obtained from the seeds of the plants of any of Claims 1, 11 or 12 wherein the polyunsaturated fatty acid is an omega-3 fatty acid selected from the group consisting of EPA, DPA, and DHA.

Claim 24. (withdrawn) Oil obtained from the seeds of the plants of any of Claims 1-10 wherein the polyunsaturated fatty acid is an omega-3 fatty acid and the total seed fatty acid profile further comprises less than 2.0% arachidonic acid.

Claim 25. (withdrawn) Oil obtained from the seeds of the plants of any of Claims 1-10 wherein the polyunsaturated fatty acid is an omega-3 fatty acid

selected from the group consisting of EPA, DPA, and DHA, and the total seed fatty acid profile further comprises less than 2.0% arachidonic acid.

Claim 26. (currently amended) The plant of Claim 1 or 12 wherein the oilseed plant is selected from the group consisting of soybean, Brassica species, sunflower, maize, cotton, flax, and safflower.

Claims 27-139. (cancelled)

Claim 140. (withdrawn and currently amended) A by-product obtained from the processing of the seeds obtained from a plant of any of claims 1, 11, or 12.

Claim 141. (cancelled)